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x

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TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock  
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area  
NEWS 4 Apr 09 ZDB will be removed from STN  
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB  
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
NEWS 10 Jun 10 MEDLINE Reload  
NEWS 11 Jun 10 PCTFULL has been reloaded  
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
saved answer sets no longer valid  
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
NEWS 15 Jul 30 NETFIRST to be removed from STN  
NEWS 16 Aug 08 CANCERLIT reload  
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
now available on STN  
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded  
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 27 Oct 21 EVENTLINE has been reloaded  
NEWS 28 Oct 24 BEILSTEIN adds new search fields  
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002  
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT  
NEWS 32 Nov 25 More calculated properties added to REGISTRY  
NEWS 33 Dec 02 TIBKAT will be removed from STN  
NEWS 34 Dec 04 CSA files on STN  
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
NEWS 36 Dec 17 TOXCENTER enhanced with additional content  
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN  
NEWS 38 Dec 30 ISMEC no longer available  
NEWS 39 Jan 21 NUTRACEUT offering one free connect hour in February 2003  
NEWS 40 Jan 21 PHARMAML offering one free connect hour in February 2003  
NEWS 41 Jan 29 Simultaneous left and right truncation added to COMPENDEX,  
ENERGY, INSPEC  
NEWS 42 Feb 13 CANCERLIT is no longer being updated  
NEWS 43 Feb 24 METADEX enhancements  
NEWS 44 Feb 24 PCTGEN now available on STN  
NEWS 45 Feb 24 TEMA now available on STN

NEWS 46 Feb 26 NTIS now allows simultaneous left and right truncation  
NEWS 47 Feb 26 PCTFULL now contains images  
NEWS 48 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results  
NEWS 49 Mar 19 APOLLIT offering free connect time in April 2003  
NEWS 50 Mar 20 EVENTLINE will be removed from STN  
NEWS 51 Mar 24 PATDPAFULL now available on STN  
NEWS 52 Mar 24 Additional information for trade-named substances without  
structures available in REGISTRY  
NEWS 53 Mar 24 Indexing from 1957 to 1966 added to records in CA/CAPLUS

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,  
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:03:00 ON 25 MAR 2003

=> fil reg\  
'REG\' IS NOT A VALID FILE NAME  
SESSION CONTINUES IN FILE 'HOME'  
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.

=> fil reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 11:03:15 ON 25 MAR 2003  
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 MAR 2003 HIGHEST RN 500530-01-8  
DICTIONARY FILE UPDATES: 24 MAR 2003 HIGHEST RN 500530-01-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e vitamin?

E1	1	VITAMEDIN/BI
E2	1437	VITAMIN/BI
E3	0	--> VITAMIN?/BI
E4	3	VITAMINS/BI
E5	1	VITAMISIN/BI
E6	2	VITAMIURAM/BI
E7	1	VITAMOGEN/BI
E8	2	VITAMYCIN/BI
E9	6	VITAN/BI
E10	1	VITANEURIN/BI
E11	1	VITANEURON/BI
E12	1	VITANEVRIL/BI

=> e vitaminb12

E1	1	VITAMEDIN/BI
E2	1437	VITAMIN/BI
E3	0	--> VITAMINB12/BI
E4	3	VITAMINS/BI
E5	1	VITAMISIN/BI
E6	2	VITAMIURAM/BI
E7	1	VITAMOGEN/BI
E8	2	VITAMYCIN/BI
E9	6	VITAN/BI
E10	1	VITANEURIN/BI
E11	1	VITANEURON/BI
E12	1	VITANEVRIL/BI

=> e b12

E1	1	B11ZN045O2/BI
E2	1	B11ZN045O21/BI
E3	9324	--> B12/BI
E4	3	B12,H12/BI
E5	1	B12.053/BI
E6	1	B12.1/BI
E7	1	B12.15/BI
E8	3	B12.2/BI
E9	1	B12.3/BI
E10	1	B12.4/BI
E11	1	B12.5/BI
E12	1	B12.6/BI

=> e cobalamin

E1	1	COBALAFLUOR/BI
E2	17	COBALAMIDE/BI
E3	516	--> COBALAMIN/BI
E4	26	COBALAMINE/BI
E5	1	COBALAMINELACTAM/BI
E6	1	COBALAMINMONO/BI
E7	1	COBALAMINMONOCARBOXYL/BI
E8	1	COBALAMINMONOCARBOXYLIC/BI
E9	2	COBALAMINSULFONIC/BI
E10	1	COBALAMINTRI/BI
E11	1	COBALAMINTRICARBOXYL/BI
E12	1	COBALAMINTRICARBOXYLIC/BI

=> s e3 or e4

516 COBALAMIN/BI

26 COBALAMINE/BI

L1 531 COBALAMIN/BI OR COBALAMINE/BI

=> e cobalamin/cn

E1 1 COBAL ALLOY, NONBASE, FE 55-58, NI 34.0-35.0, CO 5.00-6.00, TI  
2.30-2.80, SI 0-0.50, CU 0.20-0.40, MN 0-0.40, C 0-0.05 (35NKT)/  
CN

E2 1 COBALAFLUOR Y/CN

E3 1 --> COBALAMIN/CN

E4 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (AGROBACTERIUM TUMEFACIENS  
STRAIN C58 GENE COBS)/CN

E5 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (BRUCELLA MELITENSIS STRAI  
N 16M GENE BMEI1100)/CN

E6 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (COBS) (PYROBACULUM AEROPH  
ILUM STRAIN IM2 GENE PAE0379)/CN

E7 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (COBS-1) (ARCHAEOGLOBUS FU  
LGIDUS GENE AF0037)/CN

E8 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (COBS-2) (ARCHAEOGLOBUS FU  
LGIDUS GENE AF2323)/CN

E9 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (FUSOBACTERIUM NUCLEATUM N  
UCLEATUM STRAIN ATCC25586 GENE FN0912)/CN

E10 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (MESORHIZOBIUM LOTI STRAIN  
MAFF303099 GENE MLR1388)/CN

E11 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (METHANOSARCINA MAZEI STRA  
IN GOE1 GENE MM2057)/CN

E12 1 COBALAMIN (5'-PHOSPHATE) SYNTHASE (MYCOBACTERIUM TUBERCULOSI  
S STRAIN CDC1551 GENE MT2264)/CN

=> s e3

L2 1 COBALAMIN/CN

=> d

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 13408-78-1 REGISTRY

CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole- $\kappa$ .N3), ion(1+) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Cobinamide, hydroxide, ion(1+), dihydrogen phosphate (ester), inner salt,

3'-ester with 5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole

CN Cobinamide, hydroxide, ion(1+), dihydrogen phosphate (ester), inner salt,

3'-ester with 5,6-dimethyl-1- $\alpha$ -D-ribofuranosylbenzimidazole (8CI)

CN Cobinamide, ion(1+), dihydrogen phosphate (ester), inner salt, 3'-ester

with 5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole

OTHER NAMES:

CN Cobalamin

CN Cobalamine

DR 58846-82-5

MF C62 H88 Co N13 O14 P

CI CCS, COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO,

CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSChem, DDFU, DIOGENES,

DRUGU, EMBASE, NIOSHTIC, PROMT, TOXCENTER, USPATFULL

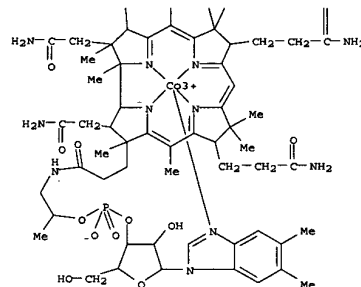
Other Sources: EINECS\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

PAGE 1-A

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS (Continued)

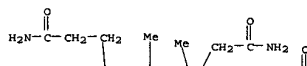
PAGE 2-A



924 REFERENCES IN FILE CA (1962 TO DATE)

152 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

925 REFERENCES IN FILE CAPLUS (1962 TO DATE)



<C

09/690,353

Page 6

=> fil .search

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.14

17.35

FILE 'MEDLINE' ENTERED AT 11:07:10 ON 25 MAR 2003

FILE 'CAPLUS' ENTERED AT 11:07:10 ON 25 MAR 2003

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=> d his

(FILE 'HOME' ENTERED AT 11:03:00 ON 25 MAR 2003)

FILE 'REGISTRY' ENTERED AT 11:03:15 ON 25 MAR 2003

E VITAMIN?

E VITAMINB12

E B12

E COBALAMIN

L1 531 S E3 OR E4

E COBALAMIN/CN

L2 1 S E3

FILE 'MEDLINE, CAPLUS, BIOSIS, USPATFULL, EMBASE' ENTERED AT 11:07:10 ON 25 MAR 2003

=> s l1 or l2

L3 58106 L1 OR L2

=> s l3 and (chelate? or ligand?)

L4 1906 L3 AND (CHELAT? OR LIGAND?)

=> s l4 and (radionuclide?)

L5 25 L4 AND (RADIONUCLIDE?)

=> dup rem l5

PROCESSING COMPLETED FOR L5

L6 23 DUP REM L5 (2 DUPLICATES REMOVED)

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

51.79

69.14

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STRUCTURE FILE UPDATES: 24 MAR 2003 HIGHEST RN 500530-01-8  
DICTIONARY FILE UPDATES: 24 MAR 2003 HIGHEST RN 500530-01-8

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> fil .search

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.40

69.54

FILE 'MEDLINE' ENTERED AT 11:08:38 ON 25 MAR 2003

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FILE 'USPATFULL' ENTERED AT 11:08:38 ON 25 MAR 2003

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=> d l6 ibib ab hitstr 1-

YOU HAVE REQUESTED DATA FROM 23 ANSWERS - CONTINUE? Y/(N):y

L6 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2003:133121 CAPLUS

DOCUMENT NUMBER: 138:183234

TITLE: Conjugates of macrocyclic metal complexes with biomolecules, and the use thereof for producing

agents

for use in NMR diagnosis, radiodiagnosis and radiotherapy  
INVENTOR(S): Platzek, Johannes; Schmitt-Willich, Heribert; Michl, Guenther; Frenzel, Thomas; Suelzle, Detlev; Bauer, Hans; Raduechel, Bernd; Weinmann, Hanns-Joachim; Schirmer, HeikoPATENT ASSIGNEE(S): Schering AG, Germany  
SOURCE: PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003013617	A2	20030220	WO 2002-EP8000	20020718
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RH: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: DE 2001-10135355 A 20010720

AB The invention discloses conjugates of macrocyclic metal complexes with biomols., as well as the prodn. thereof. The conjugates are suited for use as contrast agents in NMR diagnosis and radiodiagnosis and as agents for radiotherapy. A high relaxivity is achieved and a fine tuning of the relaxivity is made possible by a special liganding of the macrocycles.

IT 68-19-9D, Vitamin B12, conjugates

RL: DGM (Diagnostic use); PAC (Pharmacological activity); THU

(Therapeutic

use); BIOL (Biological study); USES (Uses)

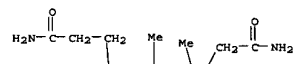
(macrocyclic metal complex-biomol. conjugates, prepn., and use as agents for NMR diagnosis, radiodiagnosis and radiotherapy)

RN 68-19-9 CAPLUS

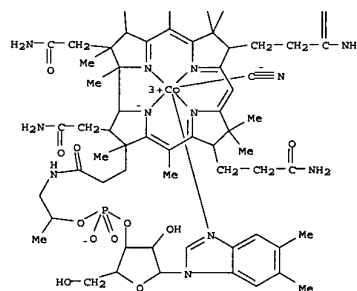
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A



PAGE 2-A



L6 ANSWER 1 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 2 OF 23 USPATFULL

ACCESSION NUMBER: 2003:23321 USPATFULL

TITLE: Endothelial cell expression patterns

INVENTOR(S): St. Croix, Brad, Cockeysville, MD, UNITED STATES  
Vogelstein, Bert, Baltimore, MD, UNITED STATES  
Kinzler, Kenneth W., BelAir, MD, UNITED STATES

PATENT INFORMATION:	NUMBER	KIND	DATE
	US 2003017157	A1	20030123
APPLICATION INFO.:	US 2001-918715	A1	20010801 (9)

PRIORITY INFORMATION:	NUMBER	DATE
	US 2000-222599P	20000802 (60)
	US 2000-224360P	20000811 (60)
	US 2001-282850P	20010411 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: BANNER &amp; MITCOFF, 1001 G STREET N W, SUITE 1100, WASHINGTON, DC, 20001

NUMBER OF CLAIMS: 17

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 4 Drawing Page(s)

LINE COUNT: 2718

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB To gain a better understanding of tumor angiogenesis, new techniques for

isolating endothelial cells (ECs) and evaluating gene expression patterns were developed. When transcripts from ECs derived from normal and malignant colorectal tissues were compared with transcripts from non-endothelial cells, over 170 genes predominantly expressed in the endothelium were identified. Comparison between normal and tumor-derived endothelium revealed 79 differentially expressed genes, including 46 that were specifically elevated in tumor-associated endothelium. Experiments with representative genes from this group demonstrated that most were similarly expressed in the endothelium of primary lung, breast, brain, and pancreatic cancers as well as in metastatic lesions of the liver. These results demonstrate that neoplastic and normal endothelium in humans are distinct at the molecular level, and have significant implications for the development of anti-angiogenic therapies in the future.

IT 9023-90-9, Methylmalonyl coenzyme A mutase  
(tumor endothelium marker proteins and genes and antibodies for cancer diagnosis and therapy and for antitumor screening)

RN 9023-90-9 USPATFULL

CN Mutase, methylmalonyl coenzyme A (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE



L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2002:539687 CAPLUS  
DOCUMENT NUMBER: 137:103873  
TITLE: Transcobalamin-binding conjugates useful for treating  
abnormal cellular proliferation  
INVENTOR(S): Collins, Douglas A.; Hogenkamp, Henricus P. C.  
PATENT ASSIGNEE(S): Mayo Foundation for Medical Education and Research,  
USA; Regents of the University of Minnesota  
SOURCE: PCT Int. Appl., 151 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

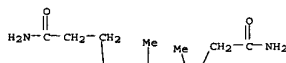
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002055530	A2	20020718	WO 2001-US51328	20011025
WO 2002055530	A3	20030123		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DO, EC, EE, ES, FI, GB, GD, GE, GR,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, PA, PL,  
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,  
US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
RW, GM, GR, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,  
BJ, CP, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG  
US 2002151525 A1 20021017 US 2001-27593 20011025  
PRIORITY APPLN. INFO.: US 2000-243082P P 20001025  
US 2000-243112P P 20001025

OTHER SOURCE(S): MARPAT 137:103873  
AB The invention discloses a transcobalamin-binding conjugate, compn. and  
method for the treatment, prophylaxis and/or diagnosis of proliferative  
disorders, which is highly and efficiently absorbed at the site of  
abnormal cellular proliferation. Comps. of the invention are  
ligands binding to vitamin B12 transport proteins (transcobalamin  
I, II, and III and intrinsic factor) and linked to a therapeutic and/or  
diagnostic agent.  
IT 26264-28-8 38218-55-2, Cyanocobalamin-d-carboxylic acid  
82556-15-8, Cyanocobalamin-b,d-dicarboxylic acid  
376394-84-2, Methylcobalamin-b-carboxylic acid 443127-79-5  
Adenosylcobalamin-b-carboxylic acid  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(reaction; transcobalamin binding conjugates useful for treatment and  
diagnosis of abnormal cellular proliferation)  
RN 26264-28-8 CAPLUS  
CN Cobinic acid-abcde-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
(ester), inner salt, 3'-ester with  
(5,6-dimethyl-1-.alpha.-D-ribofuranosyl-  
1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

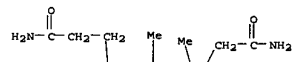
L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
RN 38218-55-2 CAPLUS  
CN Cobinic acid-abcde-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
(ester), inner salt, 3'-ester with  
(5,6-dimethyl-1-.alpha.-D-ribofuranosyl-  
1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

PAGE 1-A

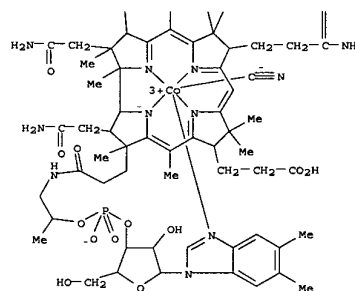


L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A

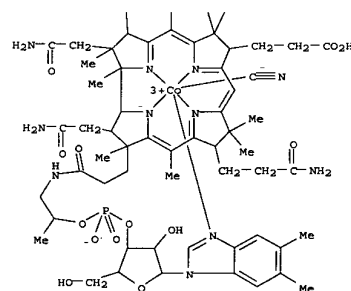


PAGE 2-A



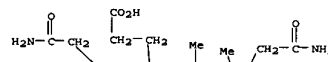
L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A



RN 82556-15-8 CAPLUS  
CN Cobinic acid-aceg-tetramide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
(ester), inner salt, 3'-ester with  
(5,6-dimethyl-1-.alpha.-D-ribofuranosyl-  
1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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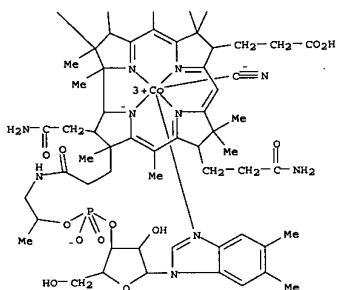


L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

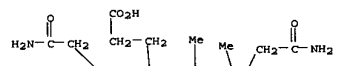
L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A

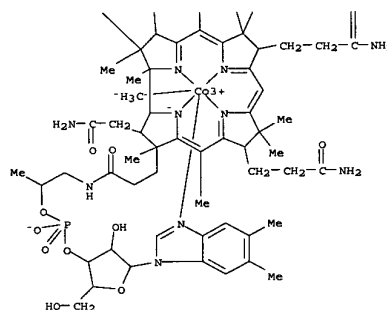
PAGE 2-A



RN 376394-84-2 CAPLUS  
 CN Cobinic acid-acdeg-pentamide, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1H-benzimidazole-3-yl)-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)



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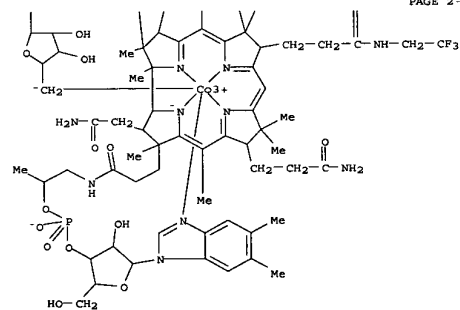
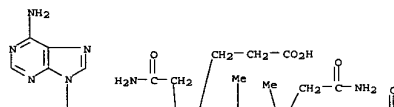
L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A

RN 443127-79-5 CAPLUS  
 CN Cobyrinic acid-acdefg-hexamide, Co-(5'-deoxyadenosin-5'-yl)-Nd-(2,2,2-trifluoroethyl)-, f-(dihydrogen phosphate), inner salt, 3'-ester with (5,6-dimethyl-1H-benzimidazole-3-yl)-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

PAGE 1-A



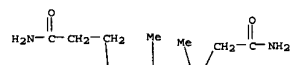
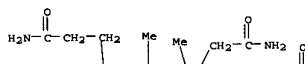
IT 68-19-9, Cyanocobalamin 68-19-9D, Cyanocobalamin, DTPA conjugates 12774-24-2, Transcobalamin  
 RL: BSU (Biological study, unclassified); BIOL (Biological study) (transcobalamin binding conjugates useful for treatment and diagnosis of abnormal cellular proliferation)  
 RN 68-19-9 CAPLUS  
 CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

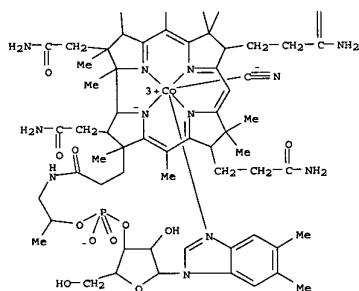
PAGE 1-A

L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
RN 68-19-9 CAPLUS  
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

PAGE 1-A

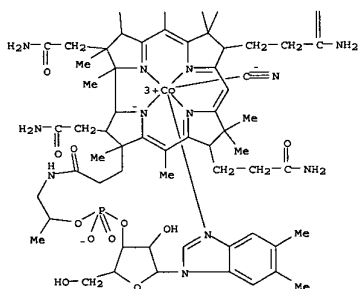


PAGE 2-A



L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A

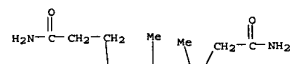
RN 12774-24-2 CAPLUS  
CN Transcobalamin (9CI) (CA INDEX NAME)

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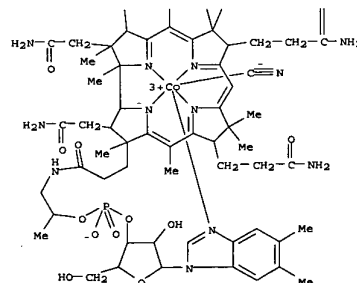
IT 68-19-9DP, Cyanocobalamin, reaction products with poly-L-lysine,  
DTPA conjugate  
RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);  
BIOL (Biological study); PREP (Preparation)  
(transcobalamin binding conjugates useful for treatment and diagnosis  
of abnormal cellular proliferation)RN 68-19-9 CAPLUS  
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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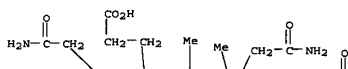


PAGE 2-A

IT 38218-77-8DP, Cyanocobalamin-b-carboxylic acid, reaction products  
with poly-L-lysine hydrobromide  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(transcobalamin binding conjugates useful for treatment and diagnosis)

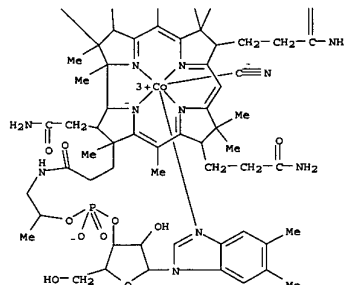
L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
of abnormal cellular proliferation)  
RN 38218-77-8 CAPLUS  
CN Cobinic acid-acdeg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
(ester), inner salt, 3'-ester with  
(5,6-dimethyl-1-.alpha.-D-ribofuranosyl-  
1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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L6 ANSWER 3 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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L6 ANSWER 4 OF 23 USPATFULL  
ACCESSION NUMBER: 2002:337325 USPATFULL  
TITLE: Fluorescent cobalamins and uses thereof  
INVENTOR(S): Grissom, Charles B., Salt Lake City, UT, UNITED STATES  
West, Frederick G., Salt Lake City, UT, UNITED STATES  
McGreevy, James, Salt Lake City, UT, UNITED STATES  
Bentz, Joel S., Salt Lake City, UT, UNITED STATES  
Cannon, Michelle J., Price, UT, UNITED STATES

NUMBER	KIND	DATE
US 2002192683	A1	20021219
US 2002-97646	A1	20020315 (10)
Continuation-in-part of Ser. No. WO 2000-US29370, filed		
on 26 Oct 2000, UNKNOWN		

NUMBER	DATE
US 1999-161368P	19991026 (60)
US 2001-276036P	20010316 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET,  
N.W., SUITE 800, WASHINGTON, DC, 20005  
NUMBER OF CLAIMS: 61  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 17 Drawing Page(s)  
LINE COUNT: 1337

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to fluorescent cobalamins and uses of these compounds. More particularly, this invention relates to fluorescent cobalamins that comprise a fluorescent, phosphorescent, luminescent or light-producing compound covalently linked to cobalamin. These fluorescent cobalamins can be used to as diagnostic and prognostic markers (a) to distinguish cancer cells and tissues from healthy cells and tissues, including identifying lymph nodes containing cancer cells, and (b) to determine if an individual will respond positively to chemotherapy using cobalamin-therapeutic bioconjugates.

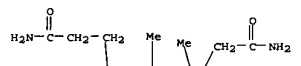
IT 12651-28-4, Transcobalamin II  
(prepn. of fluorescent cobalamins and uses for tumor tissue staining)  
RN 12651-28-4 USPATFULL  
CN Transcobalamin II (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

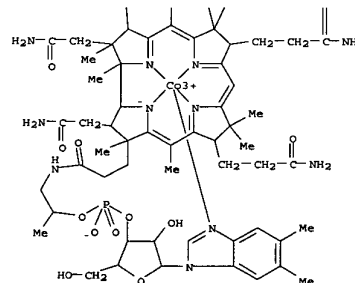
IT 13408-78-1DP, Cobalamine, derive.  
(prepn. of fluorescent cobalamins and uses for tumor tissue staining)  
RN 13408-78-1 USPATFULL  
CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with  
(5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3),  
ion(1+) (9CI) (CA INDEX NAME)

L6 ANSWER 4 OF 23 USPATFULL (Continued)

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IT 68-19-9, Cyanocobalamine  
(prepn. of fluorescent cobalamins and uses for tumor tissue staining)  
RN 68-19-9 USPATFULL  
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 4 OF 23 USPATFULL (Continued)

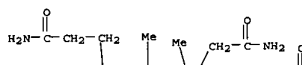
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L6 ANSWER 4 OF 23 USPATFULL (Continued)

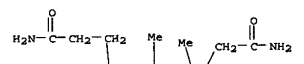
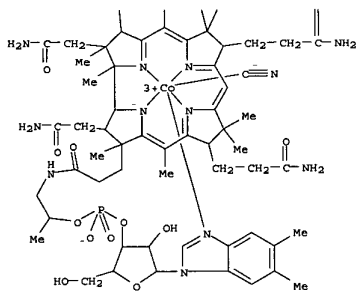
IT 26264-28-8P 38218-55-2P, CBC 226 38218-77-8P,  
CBC 195

(prepn. of fluorescent cobalamins and uses for tumor tissue staining)  
 RN 26264-28-8 USPATFULL  
 CN Cobinic acid-abcdg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
 (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-  
 ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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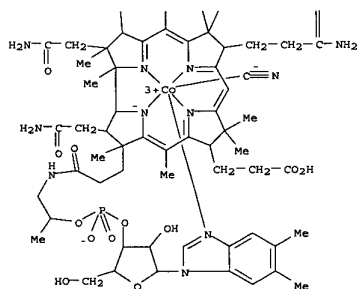


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L6 ANSWER 4 OF 23 USPATFULL (Continued)

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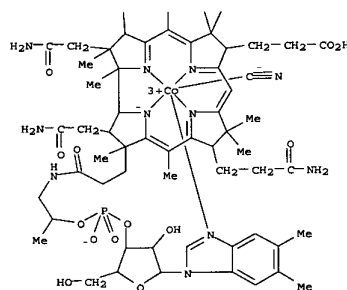


RN 38218-55-2 USPATFULL  
 CN Cobinic acid-abcdg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
 (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-  
 ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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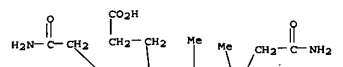
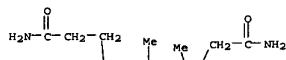
L6 ANSWER 4 OF 23 USPATFULL (Continued)

PAGE 2-A

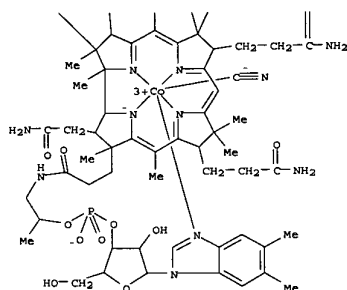


RN 38218-77-8 USPATFULL  
 CN Cobinic acid-abcdg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
 (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-  
 ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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L6 ANSWER 4 OF 23 USPATFULL (Continued)



L6 ANSWER 5 OF 23 USPATFULL

ACCESSION NUMBER: 2002:273397 USPATFULL  
 TITLE: Transcobalamin receptor binding conjugates useful for treating abnormal cellular proliferation  
 INVENTOR(S): Collins, Douglas A., Rochester, MN, UNITED STATES  
 Hogenkamp, Henricus P.C., Roseville, MN, UNITED STATES

NUMBER	KIND	DATE
US 2002:273397	A1	20021017
US 2001-27593	A1	20011025 (10)

NUMBER	DATE
US 2000-243082P	20001025 (60)
US 2000-243112P	20001025 (60)

PATENT INFORMATION: US 2000-243082P 20001025 (60)  
 APPLICATION INFO.: US 2001-27593 A1 20011025 (10)  
 DOCUMENT TYPE: Utility  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: KING & SPALDING, 191 PEACHTREE STREET, N.E., ATLANTA, GA, 30303-1763

NUMBER OF CLAIMS: 28  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 6 Drawing Page(s)  
 LINE COUNT: 4143

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An agent, composition and method for the treatment, prophylaxis and/or diagnosis of proliferative disorders, which is highly and efficiently absorbed at the site of abnormal cellular proliferation is disclosed.

IT 26264-28-8 38218-55-2, Cyanocobalamin-d-carboxylic acid  
 82556-15-8, Cyanocobalamin-b,d-dicarboxylic acid  
 376394-84-2, Methylcobalamin-b-carboxylic acid  
 443127-79-5, Adenosylcobalamin-b-carboxylic acid  
 (reaction; transcobalamin binding conjugates useful for treatment and diagnosis of abnormal cellular proliferation)

RN 26264-28-8 USPATFULL

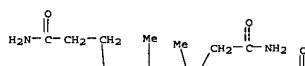
CN Cobinic acid-abcde-pentamide, Co-(cyano-kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-alpha.-D-ribofuranosyl-1H-benzimidazole-kappa.N3) (9CI) (CA INDEX NAME)

L6 ANSWER 5 OF 23 USPATFULL (Continued)

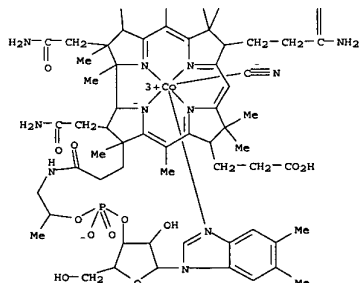
PAGE 1-A

L6 ANSWER 5 OF 23 USPATFULL (Continued)

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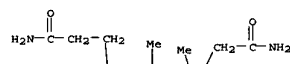


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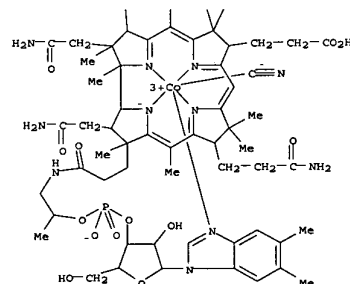


RN 38218-55-2 USPATFULL

CN Cobinic acid-abcde-pentamide, Co-(cyano-kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-alpha.-D-ribofuranosyl-1H-benzimidazole-kappa.N3) (9CI) (CA INDEX NAME)



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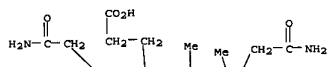


RN 82556-15-8 USPATFULL

CN Cobinic acid-aceg-tetramide, Co-(cyano-kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-alpha.-D-

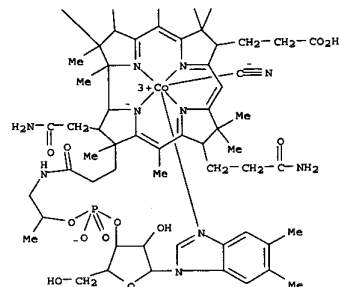
L6 ANSWER 5 OF 23 USPATFULL (Continued)  
 ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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L6 ANSWER 5 OF 23 USPATFULL (Continued)

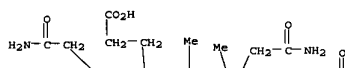
PAGE 2-A



RN 376394-84-2 USPATFULL  
 CN Cobinic acid-acdeg-pentamide, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

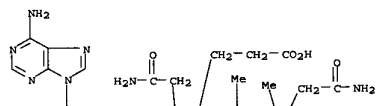
L6 ANSWER 5 OF 23 USPATFULL (Continued)

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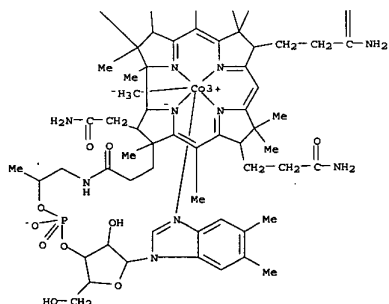


L6 ANSWER 5 OF 23 USPATFULL (Continued)  
 (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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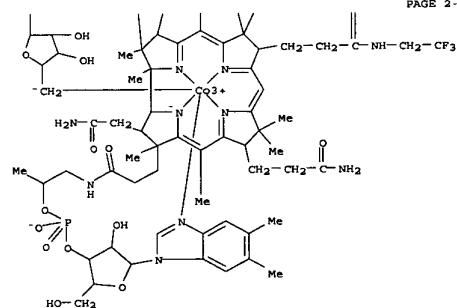


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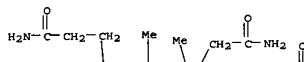
RN 443127-79-5 USPATFULL  
 CN Cobyrinic acid-acdeg-hexamide, Co-[5'-deoxyadenosin-5'-yl]-Nd-(2,2,2-trifluoroethyl)-, F-(dihydrogen phosphate), inner salt, 3'-ester with

PAGE 2-A

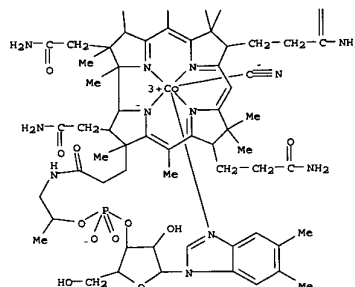


L6 ANSWER 5 OF 23 USPATFULL (Continued)  
 IT 68-19-9, Cyanocobalamin 68-19-9D, Cyanocobalamin, DTPA  
 conjugates 12774-24-2, Transcobalamin  
 (transcobalamin binding conjugates useful for treatment and diagnosis  
 of abnormal cellular proliferation)  
 RN 68-19-9 USPATFULL  
 CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

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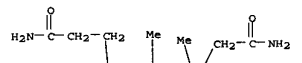


PAGE 2-A



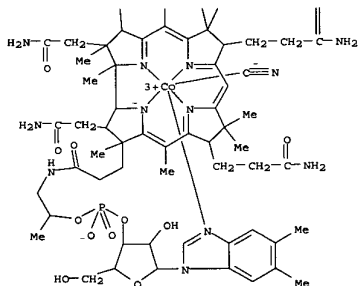
RN 68-19-9 USPATFULL  
 CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

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L6 ANSWER 5 OF 23 USPATFULL (Continued)

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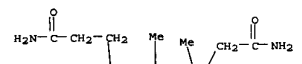


RN 12774-24-2 USPATFULL  
 CN Transcobalamin (9CI) (CA INDEX NAME)

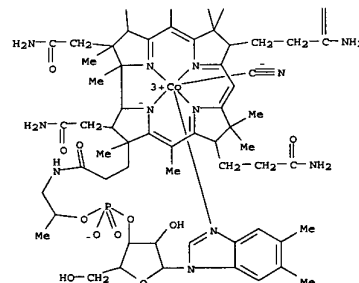
STRUCTURE DIAGRAM IS NOT AVAILABLE  
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 DTPA conjugate  
 (transcobalamin binding conjugates useful for treatment and diagnosis  
 of abnormal cellular proliferation)  
 RN 68-19-9 USPATFULL  
 CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 5 OF 23 USPATFULL (Continued)

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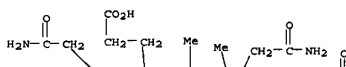


IT 38218-77-8DP, Cyanocobalamin-b-carboxylic acid, reaction products  
 with poly-L-lysine hydrobromide  
 (transcobalamin binding conjugates useful for treatment and diagnosis  
 of abnormal cellular proliferation)



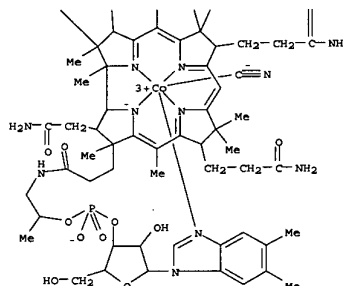
L6 ANSWER 5 OF 23 USPATFULL (Continued)  
 RN 38218-77-8 USPATFULL  
 CN Cobinic acid-acdeg-pentamide, Co-(cyano-kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-kappa.N3) (9CI) (CA INDEX NAME)

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L6 ANSWER 5 OF 23 USPATFULL (Continued)

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L6 ANSWER 6 OF 23 USPATFULL  
 ACCESSION NUMBER: 2002:164385 USPATFULL  
 TITLE: Compositions and methods for the therapy and diagnosis of breast cancer  
 INVENTOR(S): Jiang, Yuqiu, Kent, WA, UNITED STATES  
 Dillon, Devin C., Issaquah, WA, UNITED STATES  
 Mitcham, Jennifer L., Redmond, WA, UNITED STATES  
 Xu, Jiangchun, Bellevue, WA, UNITED STATES  
 Harlocker, Susan L., Seattle, WA, UNITED STATES  
 Hepler, William T., Seattle, WA, UNITED STATES  
 Henderson, Robert A., Edmonds, WA, UNITED STATES  
 PATENT ASSIGNEE(S): Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)

NUMBER	KIND	DATE
US 2002085998	A1	20020704
US 2001-834759	A1	20010413 (9)

Continuation-in-part of Ser. No. US 2000-620405, filed on 20 Jul 2000, PENDING Continuation-in-part of Ser. No. US 2000-604287, filed on 22 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-590751, filed on 8 Jun 2000, PENDING Continuation-in-part of Ser. No. US 2000-551621, filed on 17 Apr 2000, PENDING Continuation-in-part of Ser. No. US 1999-433826, filed on 3 Nov 1999, PENDING Continuation-in-part of Ser. No. US 1999-389681, filed on 2 Sep 1999, PENDING Continuation-in-part of Ser. No. US 1999-339338, filed on 23 Jun 1999, PENDING Continuation-in-part of Ser. No. US 1999-285480, filed on 2 Apr 1999, PENDING Continuation-in-part of Ser. No. US 1998-222575, filed on 28 Dec 1998, PENDING

No. 12170  
 No. 12170

DOCUMENT TYPE: APPLICATION  
 FILE SEGMENT: SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6100, SEATTLE, WA, 98104-7092  
 LEGAL REPRESENTATIVE: 19  
 NUMBER OF CLAIMS: 1  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 2 Drawing Page(s)  
 LINE COUNT: 12170

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 AB Compositions and methods for the therapy and diagnosis of cancer, particularly breast cancer, are disclosed. Illustrative compositions comprise one or more breast tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly breast cancer.

IT 440312-97-0 (nucleotide sequence; cDNAs and proteins of breast tumor-expressed genes and their use in cancer diagnosis and treatment)  
 RN 440312-97-0 USPATFULL  
 CN DNA (human clone 20943 breast tumor-ssocd. cDNA) (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE

L6 ANSWER 7 OF 23 USPATFULL  
 ACCESSION NUMBER: 2002:92631 USPATFULL  
 TITLE: Cobalamin compounds useful as cardiovascular agents and as imaging agents  
 INVENTOR(S): Hogenkamp, Henricus P.C., Roseville, MN, UNITED STATES

NUMBER	KIND	DATE
US 2002049155	A1	20020425
US 2001-873142	A1	20010531 (9)

NUMBER	DATE
US 2000-208140P	20000531 (60)
US 2001-267782P	20010209 (60)

PRIORITY INFORMATION: US 2000-208140P 20000531 (60)  
 US 2001-267782P 20010209 (60)  
 DOCUMENT TYPE: UTILITY  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: KING & SPALDING, 191 PEACHTREE STREET, N.E., ATLANTA, GA, 30303-1763

NUMBER OF CLAIMS: 50  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 2 Drawing Page(s)  
 LINE COUNT: 4521

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention provides cobalamin derivatives linked to a cardiovascular agent, as well as pharmaceutical compositions comprising the compounds and methods for using the compounds in treatment or diagnosis of a cardiovascular disease.

IT 38218-77-8 376394-84-2 (cobalamin compds. useful as cardiovascular agents and as imaging agents)

RN 38218-77-8 USPATFULL  
 CN Cobinic acid-acdeg-pentamide, Co-(cyano-kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-kappa.N3) (9CI) (CA INDEX NAME)

L6 ANSWER 7 OF 23 USPATFULL (Continued)

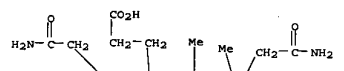
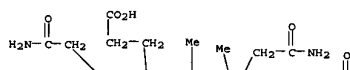
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L6 ANSWER 7 OF 23 USPATFULL (Continued)

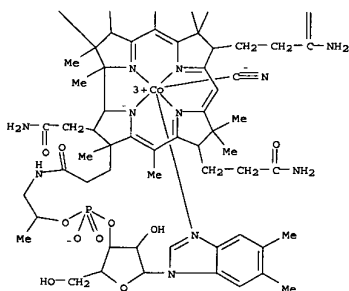
RN 376294-84-2 USPATFULL

CN Cobinic acid-acdeg-pentamide, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1'-alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

PAGE 1-A

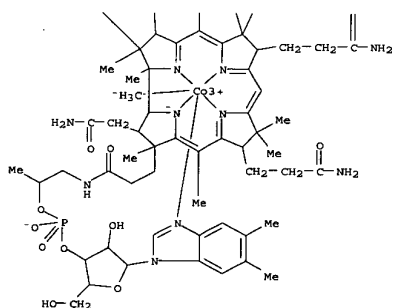


PAGE 2-A



L6 ANSWER 7 OF 23 USPATFULL (Continued)

PAGE 2-A



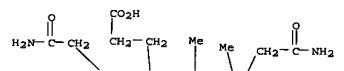
IT 38218-77-8DP, polylysine conjugates  
(cobalamin compds. useful as cardiovascular agents and as imaging agents)

RN 38218-77-8 USPATFULL

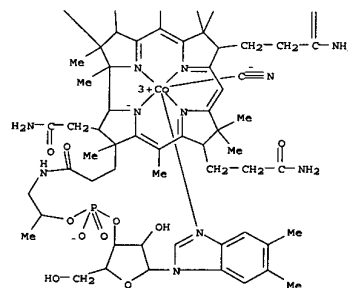
CN Cobinic acid-acdeg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1'-alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

L6 ANSWER 7 OF 23 USPATFULL (Continued)

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IT 68-19-9D, Cyanocobalamin, cobalamin conjugates  
(cobalamin compds. useful as cardiovascular agents and as imaging agents)

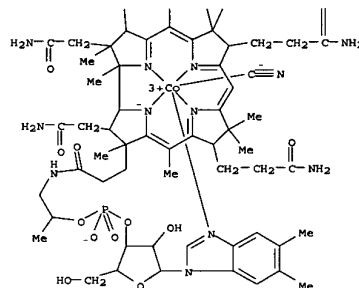
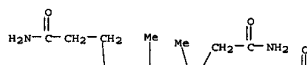
RN 68-19-9 USPATFULL

L6 ANSWER 7 OF 23 USPATFULL (Continued)  
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 7 OF 23 USPATFULL (Continued)

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L6 ANSWER 8 OF 23 USPATFULL  
ACCESSION NUMBER: 2002:78737 USPATFULL  
TITLE: Cobalamin compounds useful as antibiotic agents and as imaging agents  
INVENTOR(S): Hogenkamp, Henricus P.C., Roseville, MN, UNITED STATES  
Collins, Douglas A., Rochester, MN, UNITED STATES

L6 ANSWER 8 OF 23 USPATFULL (Continued)

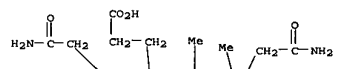
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	NUMBER	KIND	DATE
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APPLICATION INFO:	US 2001-873164	A1	20010531 (9)

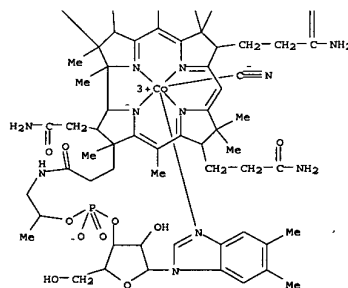
  

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-208148P	20000531 (60)
	US 2001-267543P	20010209 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: KING & SPALDING, 191 PEACHTREE STREET, N.E., ATLANTA, GA, 30303-1763  
NUMBER OF CLAIMS: 50  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 4896  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB The invention provides cobalamin derivatives linked to an antibiotic and/or an imaging agent, as well as pharmaceutical compositions comprising the compounds and methods for using the compounds in treatment or diagnosis of a microbial infection.  
IT 38218-77-8 376394-84-2  
(cobalamin compds. useful as antibiotic agents and as imaging agents)  
RN 38218-77-8 USPATFULL  
CN Cobinic acid-acdeg-pentamide, Co-(cyano-kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-alpha-D-ribofuranosyl-1H-benzimidazole-kappa.N3) (9CI) (CA INDEX NAME)



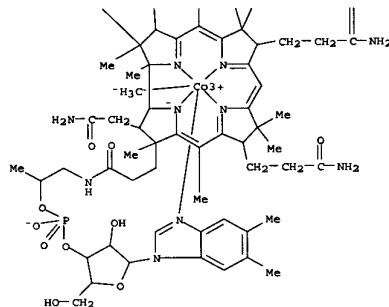
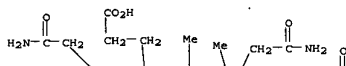
PAGE 2-A



RN 376394-84-2 USPATFULL  
CN Cobinic acid-acdeg-pentamide, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-alpha-D-ribofuranosyl-1H-benzimidazole-kappa.N3) (9CI) (CA INDEX NAME)

L6 ANSWER 8 OF 23 USPATFULL (Continued)

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IT 38218-77-8DP, reaction products with poly-L-lysine  
(cobalamin compds. useful as antibiotic agents and as imaging agents)  
RN 38218-77-8 USPATFULL  
CN Cobinic acid-acdeg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
(ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-  
ribofuranoyl-1H-benzimidazole-.kappa.N3) (9C1) (CA INDEX NAME)

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L6 ANSWER 9 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC.DUPLICATE  
1

1  
ACCESSION NUMBER: 2001:448745 BIOSIS  
DOCUMENT NUMBER: PREV200100448745  
TITLE: Radionuclide labeling of vitamin B12 and  
carboxymethylated dextran

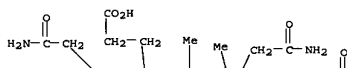
AUTHOR(S): Collins, Douglas A.; Hogenkamp, Henricus Petrus  
ASSIGNEE: Mayo Foundation for Medical Education and Research; Regents of the University of Minnesota

PATENT INFORMATION: US 6211355 April 03, 2001  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Apr. 3, 2001) Vol. 1245, No. 1, pp. No  
Pagination. e-file.  
ISSN: 0098-1133.

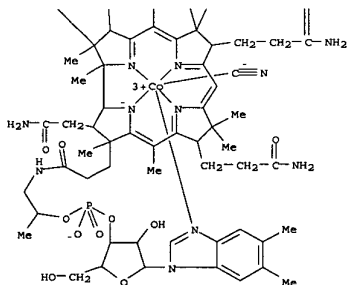
DOCUMENT TYPE: Patent  
LANGUAGE: English

LANGUAGE: English

AB A compound useful for in vivo imaging of organs and tumors is provided of formula: ##STR1## wherein ##STR2## is a cobalamin, ##STR3## is derived from a corrin carboxylic acid group of a cobalamin, Y is a linking group and X is a group, optionally complexed with a detectable radionuclide or a paramagnetic metal ion, and n is 1-3.



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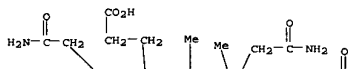
L6 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS  
 ACCESSION NUMBER: 2001:886164 CAPLUS  
 DOCUMENT NUMBER: 136:11106  
 TITLE: Cobalamin compounds useful as antibiotic agents and  
 as  
 imaging agents  
 INVENTOR(S): Collins, Douglas A.; Hogenkamp, Henricus P. C.  
 PATENT ASSIGNEE(S): Mayo Foundation for Medical Education and Research,  
 USA; Regents of the University of Minnesota  
 PCT Int. Appl., 168 pp.  
 SOURCE: CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092288	A2	20011206	WO 2001-US17989	20010531
WO 2001092288	A3	20020627		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 2002042394	A1	20020411	US 2001-873164	20010531
PRIORITY APPLN. INFO.:			US 2000-208148P	P 20000531
			US 2001-267543P	P 20010209

OTHER SOURCE(S): MARPAT 136:11106  
 AB The invention provides cobalamin deriva. linked to an antibiotic and/or  
 an  
 imaging agent, as well as pharmaceutical compds. comprising the compds.  
 and methods for using the compds. in treatment or diagnosis of a  
 microbial  
 infection.  
 IT 38218-77-8 376394-84-2  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (cobalamin compds. useful as antibiotic agents and as imaging agents)  
 RN 38218-77-8 CAPLUS  
 CN Cobinic acid-acdeg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
 (ester), inner salt, 3'-ester with  
 (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-  
 1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

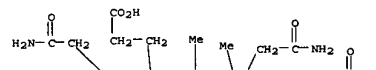
L6 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
 376394-84-2 CAPLUS  
 RN Cobinic acid-acdeg-pentamide, Co-methyl-, dihydrogen phosphate (ester),  
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 benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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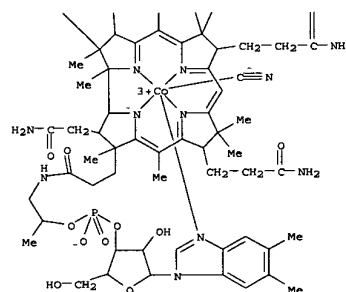


L6 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A

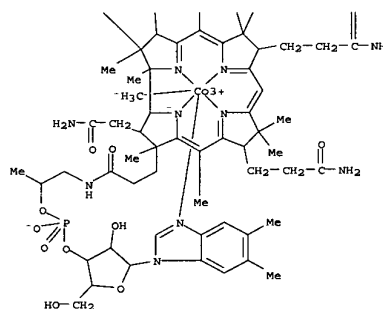


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L6 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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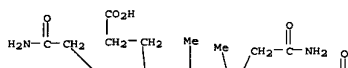


IT 38218-77-8DP, reaction products with poly-L-lysine  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
 (Reactant or reagent)  
 (cobalamin compds. useful as antibiotic agents and as imaging agents)  
 RN 38218-77-8 CAPLUS  
 CN Cobinic acid-acdeg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate  
 (ester), inner salt, 3'-ester with  
 (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-  
 1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

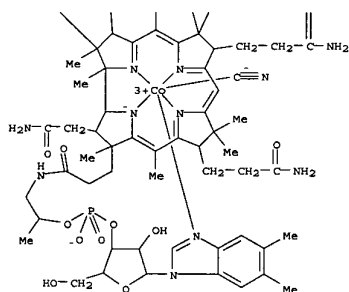
L6 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 10 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 2001:886157 CAPLUS

DOCUMENT NUMBER: 136:11105

TITLE: Cobalamin compounds useful as cardiovascular agents and as imaging agents

INVENTOR(S): Collins, Douglas A.; Hogenkamp, Henricus P. C.

PATENT ASSIGNEE(S): Mayo Foundation for Medical Education and Research, USA; Regents of the University of Minnesota

SOURCE: PCT Int. Appl., 158 pp.

CODEN: FIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092283	A2	20011206	WO 2001-US17694	20010531
WO 2001092283	A3	20020704		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, ME, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 2002049155 A1 20020425 US 2001-873142 20010531

PRIORITY APPL. INFO.: US 2000-208140P P 20000531

US 2001-267782P P 20010209

OTHER SOURCE(S): MARPAT 136:11105

AB The invention provides cobalamin derive. linked to a cardiovascular agent,

as well as pharmaceutical compns. comprising the compds. and methods for using the compds. in treatment or diagnosis of a cardiovascular disease.

IT 38218-77-8 376394-84-2

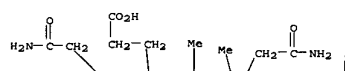
RL: RCT (Reactant); RACT (Reactant or reagent) (cobalamin compds. useful as cardiovascular agents and as imaging agents)

RN 38218-77-8 CAPLUS

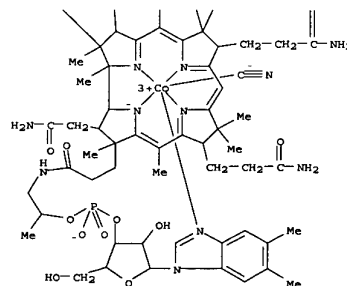
CN Cobinic acid-ecdeg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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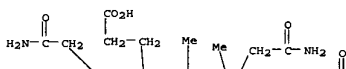


RN 376394-84-2 CAPLUS

CN Cobinic acid-ecdeg-pentamide, Co-methyl-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

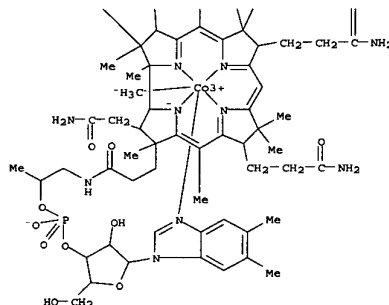
L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

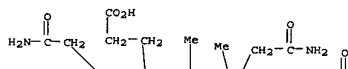
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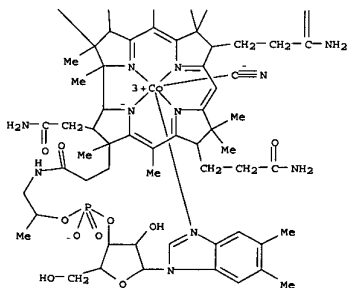
IT 38218-77-8DP, polylysine conjugates  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (cobalamin compds. useful as cardiovascular agents and as imaging agents)  
 RN 38218-77-8 CAPLUS  
 CN Cobinic acid-acdeg-pentamide, Co-(cyano-kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole-kappa.N3) (9CI) (CA INDEX NAME)

L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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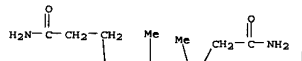


IT 68-19-9D, Cyanocobalamin, cobalamin conjugates  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (cobalamin compds. useful as cardiovascular agents and as imaging agents)

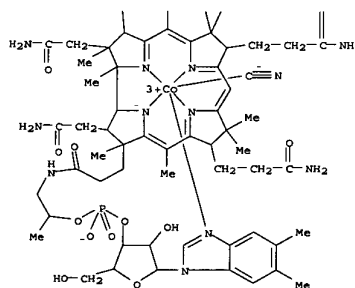
L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 68-19-9 CAPLUS  
 CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

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L6 ANSWER 11 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS  
ACCESSION NUMBER: 2001:300552 CAPLUS  
DOCUMENT NUMBER: 134:323118  
TITLE: Cobalamin conjugates useful as tumor imaging and therapeutic agents  
INVENTOR(S): Hogenkamp, Henricus P. C.; Collins, Douglas A.  
PATENT ASSIGNEE(S): Mayo Foundation for Medical Education and Research, USA; Regents of the University of Minnesota  
SOURCE: PCT Int. Appl., 46 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001028595	A1	20010426	WO 2000-US10098	20000415
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1239887	A1	20020918	EP 2000-922211	20000415
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, TJ, LV, FI, RO, MK, CY, AL			
PRIORITY APPLN. INFO.:			US 1999-159753P A2 19991015	
			WO 2000-US10098 W 20000415	
OTHER SOURCE(S):			MARPAT 134:323118	
AB	The invention provides detectably labeled cobalamin deriva. which are useful for medical treatment and diagnosis. Cobalamin conjugates have peptides or amino acids linked to metal radionuclides chelates or nonmetallic radionuclides.			
IT	13408-78-1D, Cobalamin, deriva., conjugates RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses) (cobalamin conjugates useful as imaging and therapeutic agents)			
RN	13408-78-1 CAPLUS			
CN	Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3), ion(1+) (9CI) (CA INDEX NAME)			

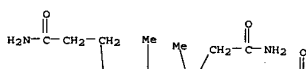
L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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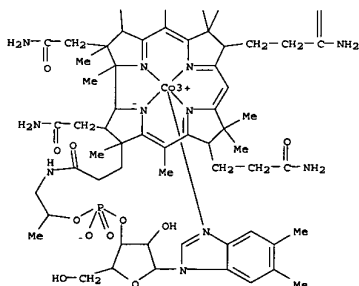
L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 26264-28-8 CAPLUS  
CN Cobinic acid-abcdg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

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IT 26264-28-8 38218-55-2 38218-77-8  
82556-15-8

RL: RCT (Reactant); RACT (Reactant or reagent)  
(cobalamin conjugates useful as imaging and therapeutic agents)

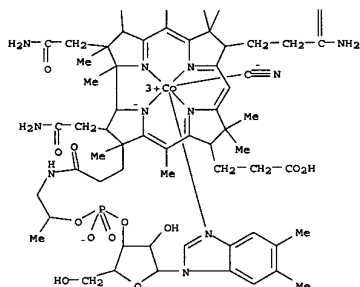


L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

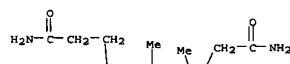
L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 2-A

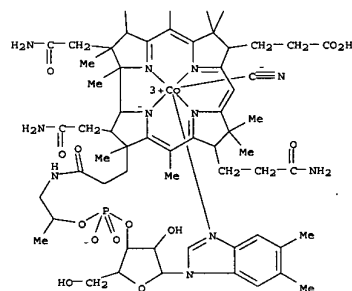
PAGE 1-A



RN 38218-55-2 CAPLUS  
 CN Cobin acid-abceg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)



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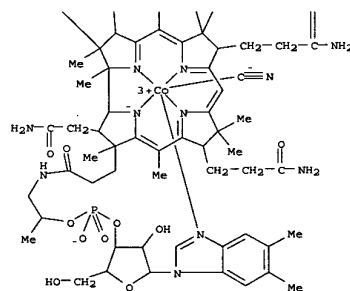
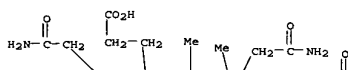
L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

RN 38218-77-8 CAPLUS  
 CN Cobin acid-acdeg-pentamide, Co-(cyano-.kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

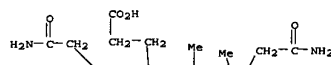
PAGE 2-A

PAGE 1-A



RN 82556-15-8 CAPLUS  
 CN Cobin acid-aceg-tetramide, Co-(cyano-.kappa.C)-, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-.alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3) (9CI) (CA INDEX NAME)

PAGE 1-A

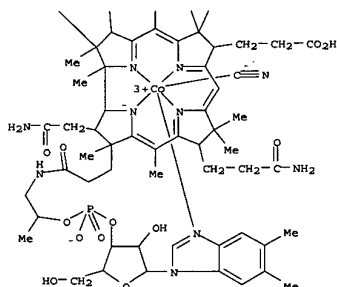


L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

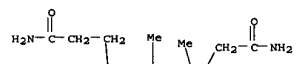
L6 ANSWER 12 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A

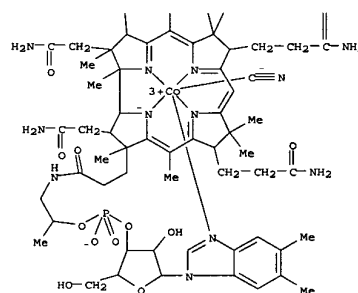
PAGE 2-A



IT 68-19-9DP, Cyanocobalamin, poly-lysine and DTPA conjugates  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(cobalamin conjugates useful as imaging and therapeutic agents)  
RN 68-19-9 CAPLUS  
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)



PAGE 2-A



L6 ANSWER 13 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS  
FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L6 ANSWER 13 OF 23 USPTAFULL  
ACCESSION NUMBER: 2001:97419 USPTAFULL  
TITLE: Method and a system for enhanced in vivo clearance of  
diagnostic and/or therapeutic agents by extracorporeal  
depletion, and the use of said agents for said purpose  
INVENTOR(S): Nilsson, Rune, Lund, Sweden  
Lindgren, Lars, Lund, Sweden  
Norrgrén, Kristina, ÅNG.karp, Sweden  
Sandberg, Bengt, Lund, Sweden  
Sjogren, Hans Olof, Lund, Sweden  
Strand, Sven-Erik, Lund, Sweden  
PATENT ASSIGNEE(S): Mitra Medical Technology AB, Lund, Sweden (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6251394	B1	20010626
	WO 9212730		19920806
APPLICATION INFO.:	US 1991-90047		19931012 (8)
	WO 1992-SE20		19920115
			19931012 PCT 371 date
			19931012 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1991-142	19910117
DOCUMENT TYPE:	UTILITY	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Witz, Jean C.	
LEGAL REPRESENTATIVE:	Swanson & Bratschun L	
NUMBER OF CLAIMS:	3	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	4 Drawing Figure(s); 2 Drawing Page(s)	
LINE COUNT:	656	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method and a system is described for reducing non-target levels of specific molecules intended for diagnostic and/or therapeutic applications to vertebrate hosts, wherein said molecules are administered to a vertebrate host and kept therein for a certain time in order to be concentrate to the target by being attached thereto. The molecules which are not attached to the target are removed from the blood circulation system or at least reduced to a lower concentration by passing the blood through an extra-corporeal device.

IT 68-19-9, Vitamin B12 13408-78-1, Cobalamin  
(extracorporeal immunoadsorption of targeting mols. in relation to)

RN 68-19-9 USPTAFULL  
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 13 OF 23 USPATFULL (Continued)

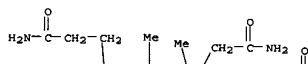
PAGE 1-A

L6 ANSWER 13 OF 23 USPATFULL (Continued)

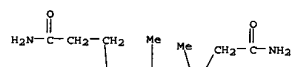
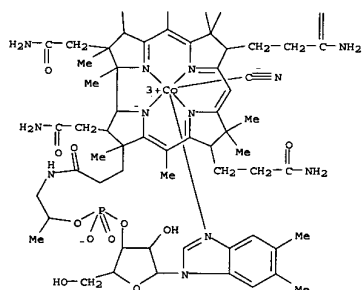
RN 13408-78-1 USPATFULL

CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole- $\kappa$ .N3), ion(1+) (9CI) (CA INDEX NAME)

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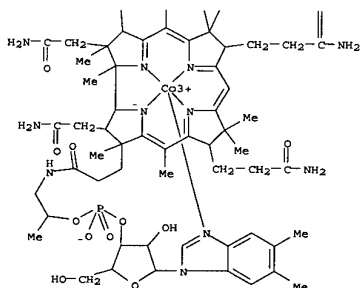


PAGE 2-A



L6 ANSWER 13 OF 23 USPATFULL (Continued)

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L6 ANSWER 14 OF 23 USPATFULL

ACCESSION NUMBER: 2000:97976 USPATFULL

TITLE: Radiolabeled labeling of vitamin B.sub.12 and

INVENTOR(S): Collins, Douglas A., Rochester, MN, United States  
Hogenkamp, Henricus Petrus, Roseville, MN, United StatesPATENT ASSIGNEE(S): Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation)  
Mayo Foundation for Medical Education and Research, Rochester, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6096290		20000801
APPLICATION INFO.:	US 1999-354553		19990715 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1998-59227, filed on 13 Apr 1998 which is a division of Ser. No. US 1995-567955, filed on 13 Nov 1995, now patented, Pat. No. US		

5739313

DOCUMENT TYPE: Utility  
FILE SEGMENT: Granted  
PRIMARY EXAMINER: Dees, Jose' G.  
ASSISTANT EXAMINER: Jones, Dameron  
LEGAL REPRESENTATIVE: Schwegman, Lundberg, Woessner & Kluth P.A.  
NUMBER OF CLAIMS: 9  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)  
LINE COUNT: 869

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound useful for in vivo imaging of organs and tumors is provided of formula: ##STR1## wherein ##STR2## is a cobalamin, ##STR3## is derived from a corrin carboxylic acid group of said cobalamin, Y is a linking group and X is a chelating group, optionally comprising a detectable radionuclide or a paramagnetic metal ion, and n is 1-3.

IT 13408-78-1D, Cobalamin, conjugates with linker and (radio)labeled chelate

(cobalamin (radio)labeled deriv. prepn. for medical imaging)

RN 13408-78-1 USPATFULL

CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole- $\kappa$ .N3), ion(1+) (9CI) (CA INDEX NAME)

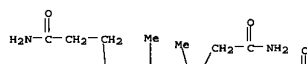
L6 ANSWER 14 OF 23 USPATFULL (Continued)

PAGE 1-A

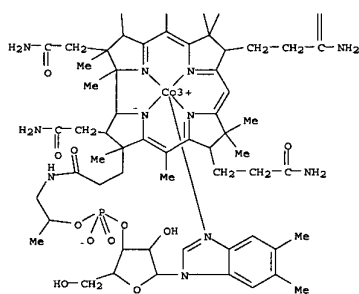
L6 ANSWER 14 OF 23 USPATFULL (Continued)

IT 12774-24-2, Transcobalamin  
(cobalamin deriv. binding to intrinsic factor and transcobalamin proteins)  
RN 12774-24-2 USPATFULL  
CN Transcobalamin (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE



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L6 ANSWER 15 OF 23 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS  
INC.DUPLICATE

2  
ACCESSION NUMBER: 2000:293107 BIOSIS  
DOCUMENT NUMBER: PREV200000293107  
TITLE: Radiolabeled labeling of vitamin B12 and  
coenzymes thereof.  
AUTHOR(S): Collins, Douglas A. (1); Hogenkamp, Henricus Petrus  
CORPORATE SOURCE: (1) Rochester, MN USA  
ASSIGNEE: Mayo Medical Ventures, Rochester, MN, USA;  
Regents of the University of Minnesota  
PATENT INFORMATION: US 6004533 December 21, 1999  
SOURCE: Official Gazette of the United States Patent and Trademark  
Office Patents, (Dec. 21, 1999) Vol. 1229, No. 3, pp. No  
pagination, e file.  
ISSN: 0098-1133.

DOCUMENT TYPE: Patent  
LANGUAGE: English

AB A compound useful for in vivo imaging of organs and tumors is provided of  
formula: #STR1# wherein #STR2# is a cobalamin, #STR3# is derived  
from a corrin carboxylic acid group of said cobalamin, Y is a linking  
group and X is a chelating group, optionally comprising a  
detectable radiolabeled or a paramagnetic metal ion, and n is  
1-3.

L6 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:207280 CAPLUS  
DOCUMENT NUMBER: 128:275101  
TITLE: Gas and gaseous precursor filled microspheres as  
topical and subcutaneous delivery vehicles  
INVENTOR(S): Unger, Evan C.; Matsunaga, Terry O.; Yellowhair,  
David  
PATENT ASSIGNEE(S): Imarx Pharmaceutical Corp., USA  
SOURCE: U.S., 40 pp., Cont.-in-part of U.S. Ser. No. 307,305.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 19  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5733572	A	19980331	US 1994-346426	19941129
US 5088499	A	19920218	US 1990-569828	19900820
WO 9109629	A1	19910711	WO 1990-US7500	19901219
W: CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
AT 180170	E	19990615	AT 1991-902857	19901219
ES 2131051	T3	19990716	ES 1991-902857	19901219
JP 3109356	B2	20020729	JP 1991-503276	19901219
JP 05502675	T2	19930513		
US 5228446	A	19930720	US 1991-717084	19910618
WO 9222247	A1	19921223	WO 1992-US2615	19920331
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
AU 9220020	A1	19930112	AU 1992-20020	19920331
AU 667471	B2	19960328		
JP 06508364	T2	19940922	JP 1993-500847	19920331
EP 616508	A1	19940928	EP 1992-912456	19920331
EP 616508	B1	20010718		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
EP 660687	A1	19950705	EP 1992-912455	19920331
EP 660687	B1	19981028		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE				
AT 172625	E	19981115	AT 1992-912455	19920331
ES 2124733	T3	19990216	ES 1992-912455	19920331
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AT 203148	E	20010815	AT 1992-912456	19920331
ES 2159280	T3	20011001	ES 1992-912456	19920331
US 5469854	A	19951128	US 1993-76239	19930611
US 5580575	A	19961203	US 1993-76250	19930611
US 5348016	A	19940920	US 1993-88268	19930707
US 5542935	A	19960806	US 1993-160232	19931130
US 5585112	A	19961217	US 1993-159687	19931130
US 5769080	A	19980623	US 1994-199462	19940222
WO 9428874	A1	19941222	WO 1994-US5633	19940519
W: AU, CA, CH, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5773024	A	19980630	US 1994-307305	19940916
CA 2177713	AA	19950608	CA 1994-2177713	19941130
WO 9515118	A1	19950608	WO 1994-US13817	19941130
W: AU, CA, CH, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
JP 0906098	T2	19970617	JP 1995-515763	19941130
US 5571497	A	19961105	US 1995-468056	19950606
CN 1180310	E	19980429	CN 1996-193069	19960327

L6 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
US 6001335 A 19991214 US 1996-665719 19960618  
US 5935553 A 19990810 US 1996-758179 19961125  
US 5985246 A 19991116 US 1997-888426 19970708  
AU 9856271 A1 19980507 AU 1998-56271 19980224  
AU 713127 B2 19991125  
AU 9888405 A1 19981203 AU 1998-88405 19981012  
AU 731072 B2 20010322  
AU 9910043 A1 19990304

PRIORITY APPLN. INFO.:

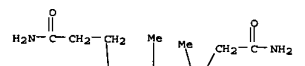
AU 1999-10043 19990104  
US 1989-455707 B2 19891222  
US 1990-569828 A2 19900820  
US 1991-716899 B2 19910618  
US 1991-717084 A2 19910618  
US 1993-76239 A2 19930611  
US 1993-76250 A2 19930611  
US 1993-159674 B2 19931130  
US 1993-159687 A2 19931130  
US 1993-160232 A2 19931130  
US 1994-307305 A2 19940916  
WO 1990-057500 W 19901219  
US 1991-716793 A 19910618  
US 1991-750877 A3 19910826  
US 1992-818069 A3 19920108  
WO 1992-052610 W 19920331  
WO 1992-052615 A 19920331  
US 1992-967974 A3 19921027  
US 1993-17683 A3 19930212  
US 1993-18112 B3 19930217  
US 1993-85608 A3 19930630  
US 1993-88268 A3 19930707  
US 1993-163039 A3 19931206  
US 1994-212553 B2 19940311  
AU 1994-70416 A3 19940519  
US 1994-346426 A 19941129  
AU 1995-21850 A3 19941130  
WO 1994-0513817 W 19941130  
US 1995-395683 A3 19950228  
US 1995-468056 A3 19950606  
US 1995-471250 A3 19950606  
US 1996-665719 A3 19960618

AB Gas and gaseous precursor filled microspheres, and foams provide novel topical and s.c. delivery vehicles for various active ingredients, including drugs and cosmetics. Gas and gaseous precursor filled microcapsules were prepd. from dipalmitoylphosphatidylcholine.  
IT 68-19-9D, Cyanocobalamin, deriva.  
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)  
RN 68-19-9 CAPLUS  
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

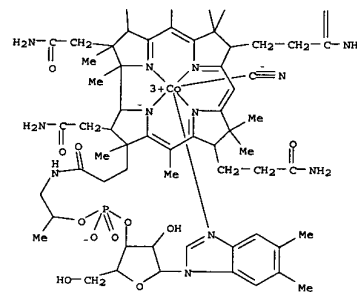
L6 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 16 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A



PAGE 2-A



L6 ANSWER 17 OF 23 USPTAFULL  
ACCESSION NUMBER: 1998:39699 USPTAFULL  
TITLE: Radiocobalamin labeling of vitamin B.sub.12 and coenzymes thereof  
INVENTOR(S): Collins, Douglas A., Rochester, MN, United States  
Hogenkamp, Henricus Petrus, Roseville, MN, United States  
PATENT ASSIGNEE(S): Regents of the University of Minnesota, Minneapolis, MN, United States (U.S. corporation)  
Mayo Foundation for Medical Education and Research, Rochester, MN, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5739313		19980414
APPLICATION INFO.:	US 1995-557955		19951113 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Gitomer, Ralph		
ASSISTANT EXAMINER:	Crane, L. Eric		
LEGAL REPRESENTATIVE:	Schwegman, Lundberg, Woessner & Kluth, P.A.		
NUMBER OF CLAIMS:	13		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Figure(s); 2 Drawing Page(s)		
LINE COUNT:	833		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A compound useful for in vivo imaging of organs and tumors is provided of formula: ##STR1## wherein ##STR2## is a cobalamin, ##STR3## is derived from a corrin carboxylic acid group of said cobalamin, Y is a linking group and X is a chelating group, optionally comprising a detectable radiocobalamin or a paramagnetic metal ion, and n is 1-3.

IT 13408-78-1D, Cobalamin, conjugates with linker and (radio)labeled chelate

(Cobalamin (radio)labeled deriv. prepn. for medical imaging)

RN 13408-78-1 USPTAFULL

CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1-..alpha.-D-ribofuranosyl-1H-benzimidazole-.kappa.N3), ion(1+) (9CI) (CA INDEX NAME)

L6 ANSWER 17 OF 23 USPATFULL (Continued)

PAGE 1-A

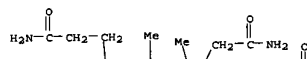
L6 ANSWER 17 OF 23 USPATFULL (Continued)

IT 12774-24-2, Transcobalamin  
(cobalamin deriv. binding to intrinsic factor and transcobalamin proteins)

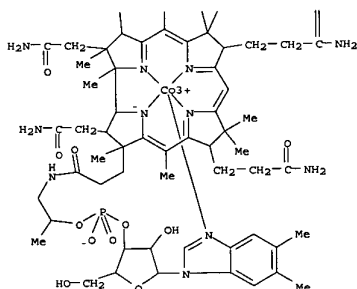
RN 12774-24-2 USPATFULL

CN Transcobalamin (9CI) (CA INDEX NAME)

STRUCTURE DIAGRAM IS NOT AVAILABLE



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L6 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 129:119671

DOCUMENT NUMBER:

TITLE:

AUTHOR(S): Hogenkamp, H. P. C.; Collins, D. A.  
CORPORATE SOURCE: Department of Biochemistry, University of Minnesota,  
Minneapolis, MN, 55455, USASOURCE: Vitamin B12 and B12-Proteins, Lectures presented at  
the European Symposium on Vitamin B12 and  
B12-Proteins, 4th, Innsbruck, Sept., 1996 (1998),  
Meeting Date 1996, 505-514. Editor(s): Kraeutler,  
Bernhard; Arigoni, Dullio; Golding, Bernard T.  
Wiley-VCH Verlag GmbH: Weinheim, Germany.

CODEN: 66BKAH

DOCUMENT TYPE: Conference

LANGUAGE: English

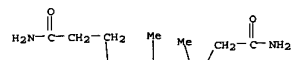
AB Recently we have demonstrated that cyano-, methyl- and adenosylcobalamin modified with diethylenetriaminepentaacetate at the b-propionamide positions are promising in vivo intrinsic factor and transcobalamin II receptor imaging agents. We have now extended this approach and describe the covalent attachment of DTPA to the corrin ring via a four carbon tether to the b-, d- and e-propionamide side chains. The in vitro biol. activity of these cobalamin-DTPA complexes was detd. by the intrinsic factor blocking antibody and the unsatd. vitamin B12 binding capacity assays and was compared to those of cyanocobalamin and DTPA. Like DTPA, the cobalamin-DTPA complexes are very efficient chelators of Gd-157 and the radionuclides Tc-99m, In-111 and Gd-153. The relaxivity and omolarity of several of the cobalamin-DTPA-Gd-157 complexes were measured and compared to Gd-157 chloride, as well as the com. available magnetic resonance image MRI contrasting agents, Prohance and Magnevist. Preliminary in vivo results suggest that the cobalamin-DTPA complexes should be effective imaging agents.

IT 13408-78-1DP, Cobalamin, complexes with DTPA and radiolabels  
RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)  
(prepn. and biol. activity of radiolabeled cobalamin-diethylenetriaminepentaacetate complexes)

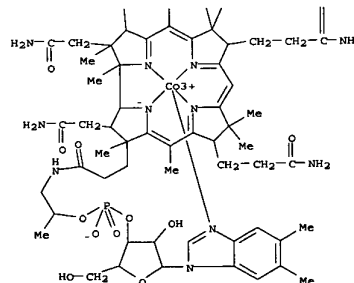
RN 13408-78-1 CAPLUS  
CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole--kappa.N3), ion(1+) (9CI) (CA INDEX NAME)

L6 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L6 ANSWER 18 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2003 ACS

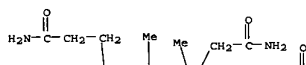
ACCESSION NUMBER: 1997:440198 CAPLUS  
 DOCUMENT NUMBER: 127:47236  
 TITLE: Labeled cobalamin derivatives, their preparation, and their use in medical imaging  
 INVENTOR(S): Collins, Douglas A.; Hogenkamp, Henricus P. C.  
 PATENT ASSIGNEE(S): Mayo Foundation for Medical Education and Research, USA; Collins, Douglas A.; Hogenkamp, Henricus P. C.  
 SOURCE: PCT Int. Appl., 32 pp.  
 DOCUMENT TYPE: CODEN: PIXXD2  
 LANGUAGE: Patent  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION: English

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9718231	A1	19970522	WO 1996-US18334	19961112
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5739313	A	19980414	US 1995-557955	19951113
CA 2237263	AA	19970522	CA 1996-2237263	19961112
AU 9711195	A1	19970605	AU 1997-11195	19961112
AU 702026	B2	19990211		
EP 883627	A1	19981216	EP 1996-942005	19961112
EP 883627	B1	20020403		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2000500753	T2	20000125	JP 1997-519102	19961112
NZ 324114	A	20000128	NZ 1996-324114	19961112
AT 215554	E	20020415	AT 1996-942005	19961112
ES 2175162	T3	20021116	ES 1996-942005	19961112
US 6004533	A	19991221	US 1998-59227	19980413
AU 9924999	A1	19990617	AU 1999-24999	19990430
AU 719545	B2	20000511		
US 6096290	A	20000801	US 1999-354553	19990715
US 6211355	B1	20010403	US 2000-500780	20000208
PRIORITY APPLN. INFO.:			US 1995-557955	A 19951113
			AU 1997-11195	A3 19961112
			WO 1996-US18334	W 19961112
			US 1998-59227	A3 19980413
			US 1999-354553	A3 19990715

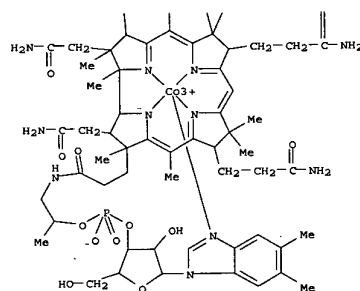
OTHER SOURCE(S): MARPAT 127:47236  
 AB Compds. [Co(X)] [C(O)-Y-Det] [Co(X) = cobalamin; C(O) = residue of monocarboxylic acid of cobalamin; X = CN, OH, Me, adenosyl; Y = linking group; Det = detectable chelating group comprising radionuclide or paramagnetic metal ion] are provided. The compds. of the invention are useful in evaluation of kidney, liver, spleen, or intestinal function and for detecting tumors.  
 IT 13408-78-1D, Cobalamin, conjugates with linker and (radio)labeled chelate

L6 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
 RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (cobalamin (radio)labeled deriv. prepn. for medical imaging)  
 RN 13408-78-1 CAPLUS  
 CN Cobinamide, dihydrogen phosphate (ester), inner salt, 3'-ester with (5,6-dimethyl-1- $\alpha$ -D-ribofuranosyl-1H-benzimidazole- $\kappa$ 3), ion(1+) (9CI) (CA INDEX NAME)

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L6 ANSWER 19 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)  
 PAGE 2-A



IT 12774-24-2, Transcobalamin  
 RL: BSU (Biological study, unclassified); BIOL (Biological study)  
 (cobalamin deriv. binding to intrinsic factor and transcobalamin proteins)  
 RN 12774-24-2 CAPLUS  
 CN Transcobalamin (9CI) (CA INDEX NAME)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

L6 ANSWER 20 OF 23 USPATFULL  
ACCESSION NUMBER: 8741588 USPATFULL  
TITLE: Compositions and method for simultaneous multiple  
array of analytes using radioisotope chelate labels  
INVENTOR(S): Olson, Douglas R., Doylestown, PA, United States  
PATENT ASSIGNEE(S): ICM Micromedic Systems, Inc., Costa Mesa, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4672028		19870609
APPLICATION INFO.:	US 1984-612979		19840523 (6)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Nucker, Christine M.		
LEGAL REPRESENTATIVE:	Lyon & Lyon		
NUMBER OF CLAIMS:	47		
EXEMPLARY CLAIM:	1		
LINE COUNT:	784		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compounds useful in a simultaneous multiple assay for analytes such as steroids, proteins, peptides, carbohydrates or drugs. The compound or compounds are prepared by labelling an individual analyte with a radioisotope through a chelating agent to form a coordinated compound. The assay uses one or more chelated labelled analytes with one or more labelled analytes wherein each radioisotope

is

different.

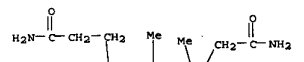
IT 68-19-9  
(detr. of, in simultaneous multiple RIAs, metal isotope chelate labels for)

RN 68-19-9 USPATFULL

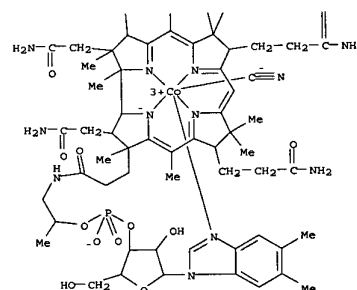
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)

L6 ANSWER 20 OF 23 USPATFULL (Continued)

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L6 ANSWER 20 OF 23 USPATFULL (Continued)

L6 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1986:84931 CAPLUS  
DOCUMENT NUMBER: 104:84931  
TITLE: Simultaneous multiple assays and compounds and compositions useful in them  
INVENTOR(S): Olson, Douglas Richard  
PATENT ASSIGNEE(S): Micromedic Systems, Inc., USA  
SOURCE: Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 165716	A1	19851227	EP 1985-303564	19850521
EP 165716	B1	19900131		
R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
US 4672028	A	19870609	US 1984-612979	19840523
AT 50066	E	19900215	AT 1985-303564	19850521
AU 8542798	A1	19851128	AU 1985-42798	19850523
AU 882970	B2	19890413		
JP 61000092	A2	19860106	JP 1985-111312	19850523
PRIORITY APPLN. INFO.:			US 1984-612979	19840523
			EP 1985-303564	19850521

AB Simultaneous multiple assays for org. species (e.g., steroids, proteins, peptides, carbohydrates, drugs) are described. This procedure makes use of coordinated compds., which are prepd. by labeling an individual org. species with a radioisotope through a chelating agent of general structure (HO2CCH2)2NCHR[CH2N(CH2CO2H)CH2]nCH2N(CH2CO2H)2 where R = Ph,

OR

Ph substituted with NO2, NH2, and/or SO3H and n = 0 or 1. Radiolabeled org. species cong. individually distinguishable radionuclides are combined in a variety of configurations to measure more org. species simultaneously using radioassay. For example, for simultaneous detr. of LH and FSH, 57Co-labeled LH was prepd. by mixing lyophilized LH with diethylenetriaminepentaacetic anhydride (1) in Na2CO3 soln. The resulting LH-1 was mixed with 57CoCl2 in HCl to yield 57Co-labeled LH.

125I-labeled

FSH was prepd. by mixing FSH antigen with Na125I in phosphate-buffered saline. A test sample or std. was mixed with antiserum and incubated for 1 h at 37 degree. Tracer solns. were added and the reaction mixt. was further incubated for 1 h at room temp. After addn. of pptg. soln., the mixt. was incubated for 10 min at room temp. and centrifuged. The liq. was discarded and the tubes were counted for 125I and 57Co in a gamma-counter. Unknown samples were read from a std. curve.

IT

RL: ANT (Analyte); ANST (Analytical study)  
(detr. of, in simultaneous multiple RIAs, metal isotope chelate labels for)

RN 68-19-9 CAPLUS

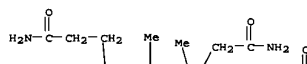
CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)



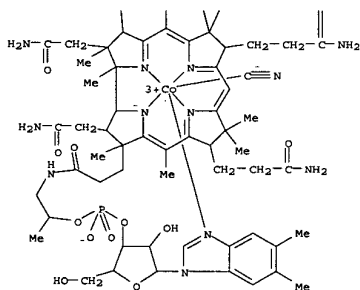
L6 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

L6 ANSWER 21 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

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L6 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS

L6 ANSWER 22 OF 23 CAPLUS COPYRIGHT 2003 ACS (Continued)

ACCESSION NUMBER: 1978:34141 CAPLUS

DOCUMENT NUMBER: 88:34141

TITLE: Detection of genetic variation with radioactive

ligands. 1. Electrophoretic screening of

plasma proteins with a selected panel of compounds

Cavalli-Sforza, Luigi L.; Daiger, Stephen P.; Rummel,

Diane P.

CORPORATE SOURCE: Dep. Genet., Stanford Univ. Med. Cent., Stanford, CA,

SOURCE:

American Journal of Human Genetics (1977), 29(6),

581-92

CODEN: AJHGAG; ISSN: 0002-9297

DOCUMENT TYPE:

LANGUAGE:

English

AB To detect new genetic variation in human plasma proteins, a panel of 63 radioactive substances were screened as potential radioligands using polyacrylamide gel electrophoresis and autoradiography. Vitamins, hormones, drugs, amino acids, purines, pyrimidines, sugars, and lipids labeled with <sup>14</sup>C or other radionuclides were among those substances tested.

A majority bound to albumin and a smaller fraction to prealbumins and lipoproteins. Several vitamins and hormones bound to specific .alpha.

and .beta. globulins. Electrophoretic polymorphisms of the vitamin D-binding

protein (group-specific component), a vitamin B12-binding protein

(transcobalamin II), and thyroxine-binding .alpha. globulin were obsd.

Testosterone-binding .beta. globulin showed an electrophoretic

polymorphism in Caucasians and a possible deficiency allele. Transcortin

showed an electrophoretic doublet in all persons tested but no

electrophoretic variation. A protein binding a deriv. of norepinephrine

or epinephrine was identified as transferrin. A nonpolymorphic protein

running cathodal to albumin and binding a deriv. of riboflavin was

tentatively identified as a fraction of albumin with mobility altered as

a result of interaction with the ligand.

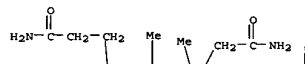
IT 68-19-9

RL: ANST (Analytical study)

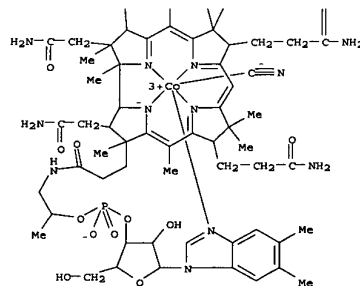
(proteins binding by, detection of, genetics in relation to)

RN 68-19-9 CAPLUS

CN Vitamin B12 (8CI, 9CI) (CA INDEX NAME)



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L6 ANSWER 23 OF 23 MEDLINE  
ACCESSION NUMBER: 72020287 MEDLINE  
DOCUMENT NUMBER: 72020287 PubMed ID: 4999929  
TITLE: Measurement of glomerular filtration rate.  
AUTHOR: Materson B J  
SOURCE: CRC CRITICAL REVIEWS IN CLINICAL LABORATORY SCIENCES,  
(1971)  
Jan) 2 (1) 1-43. Ref: 243  
Journal code: 1247734. ISSN: 0590-8191.  
PUB. COUNTRY: United States  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 197112  
ENTRY DATE: Entered STN: 19900310  
Last Updated on STN: 19990129  
Entered Medline: 19711221